

ABSTRACT OF THE DISCLOSURE

A composite riser for an archery bow formed from fibers embedded in resin in such a way that resin rich areas, dry fibers and voids are eliminated, providing consistent risers of high quality. The location of structural fibers, such as carbon fibers or fiberglass composite materials, is ensured within a mold used to form the riser and relative to the resin which bonds the fibers together. Various processes may be used to form the riser with control of the fibers and resin maintained. For example, structural reaction injection molding, liquid composite molding, continuous fiber molding, modified compression molding, resin transfer molding and variable infusion molding processes can be used.